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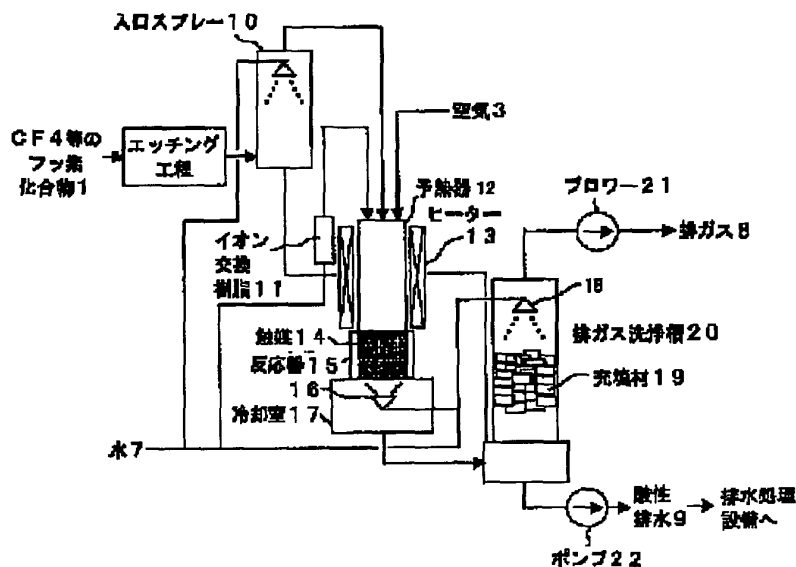
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(54) DECOMPOSITION
TREATMENT METHOD
OF
FLUORINE-CONTAINING
COMPOUND, CATALYST
AND DECOMPOSITION
TREATMENT DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To efficiently decompose and treat fluorine compounds containing only fluorine as halogen such as CF_4 and C_2F_6 .

SOLUTION: In the method for decomposing and treating fluorine-containing compounds, gas flow consisting of fluorine compounds containing only fluorine as halogen is brought into contact with an Al-containing catalyst such as a catalyst consisting of Al and Ni, Al and Zn, Al and Ti at about $200-800^\circ C$ in the existence of steam and fluorine contained in the gas flow and fluorine contained in gas flow is converted into hydrogen fluoride. Further, the device for decomposing and treating the fluorine-containing compounds is equipped with a reactor 15 filled with the catalyst 14 containing Al, a water adding vessel in which steam is added to gas flow containing a compound consisting of fluorine and one of carbon, sulfur and nitrogen treated in the reactor 15 and a heating means consisting of a preheater 12 and a heater 13 by which one hand of the catalyst 14 filled in the reactor 15 and the gas flow containing fluorine compounds 1 introduced into the reactor 15 is heated at such temperature that the fluorine compounds 1 are hydrolyzed.



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